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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/672,635	09/28/2000	Gary Dan Dotson	00AB148	8217
7590 02/08/2006			EXAMINER	
Allen-Bradley Company Inc			NGUYEN, KIMNHUNG T	
Attention: John	J Horn			
Patent Dept/704P Floor 8 T-29			ART UNIT	PAPER NUMBER
1201 South Second Street			2677	
Milwaukee, WI	53204			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/672,635	DOTSON, GARY DAN				
Office Action Summary	Examiner	Art Unit				
	Kimnhung Nguyen	2677				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a report of will apply and will expire SIX (6) MON ute, cause the application to become AB	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on An	nendment filed on 11/17/05.					
<u> </u>						
<i>,</i> —						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-7,9-13,16,17,19,21-23 and 25-27	is/are pending in the applic	ation.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-3,5-7,11 and 21-23</u> is/are rejected	d.	·				
7) Claim(s) 4,9-10, 12-13,16-17, 19 and 25-27	is/are objected to.					
8) Claim(s) are subject to restriction and	I/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami	ner.					
10) The drawing(s) filed on is/are: a) a		by the Examiner.				
Applicant may not request that any objection to the	ne drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)□ Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority docume	ents have been received in A	Application No				
Copies of the certified copies of the pr	iority documents have been	received in this National Stage				
application from the International Bure	eau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a li	st of the certified copies not	received.				
•						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	:	s)/Mail Date nformal Patent Application (PTO-152)				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	6) Other:					

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DETAILED ACTION

This Application has been examined. The claims 1-7,9-13, 16-17, 19, 21-23 and 25-27 are pending. The examination results are as following.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 5-7, 11, 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuo et al. (US 5,192,943) in view of Muhich et al. (US 4,706,074).

Regarding claims 1, 5 and 21, Matsuo et al. discloses in figs. 1 and 5, a video controller for interfacing a frame buffer (90, fig. 1) to a dual scan display having a adjacent first (510, fig. 5) and a second display portions (510, fig. 5) with a display boundary there between, the video controller comprising a raster engine (display screen) that receives video data from the frame buffer to format the video data and render the formatted data to the dual scan display line by line, and a hardware cursor (cursor mask signal) that selectively overlays a cursor image across the display boundary onto the first and second display portions.

However, Prince does not disclose the hardware cursor comprises a cursor line buffer that overlays a first portion of the cursor image into a first data path of the raster engine according to a comparison of a first vertical counter value with a first cursor start address and a comparison of a horizontal counter value in the raster engine with a cursor column start value and a cursor image width value in the hardware cursor.

Muhich et al. discloses in figs. 2, 3 hardware cursor(cursor control 30) comprises a cursor line buffer that overlays a first portion of the cursor image into a first data path of the raster engine according to a comparison of a first vertical counter value with a first cursor start address and a comparison of a horizontal counter value in the raster engine with a cursor column start value and a cursor image width value in the hardware cursor (see registers 28, 29 for storing the position of a cursor, values stored in the registers are compared to counter values during scan (the X and Y cursors position 28, 29 are cursors start addresses, see col. 2, lines 63-66).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement a cursor line buffer that overlays a first portion of the cursor image into a first data path of the raster engine according to a comparison of a first vertical counter value with a first cursor start address and a comparison of a horizontal counter value in the raster engine with a cursor column start value and a cursor image width value in the hardware cursor as taught by Muhich et al. into the dual scan display of Masuo et al. because this would provide a desired screen position of the cursor, represent X and Y screen coordinates respectively for the user (see col. 2, lines 58-62).

Regarding claims 2, 3, 22, Matsuo et al. discloses in fig. 5, the raster engine comprises first data path (because first frame having a first data path) and second (a second frame having second data path) data path, the first and second data paths respectively associated with first and second display portions, and the hardware cursor overlays a first portion of the cursor image onto the first display portion and overlays a second portion of the cursor image onto the second display portion if the cursor crosses the display boundary (see fig. 5).

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Regarding claim 6, Matsuo et al. discloses that the cursor image crosses the display boundary according to the cursor position (fig. 5)

Regarding claims 7, 23, Matsuo et al. does not disclose the method comprising determining first and second portions of the cursor image if the cursor image crosses the display boundary; overlaying the first portion of the cursor image onto the first display portion if the cursor crosses the display boundary; and overlaying the second portion of the cursor image onto the second display portion if the cursor crosses the display boundary.

Muhich et al. discloses in figs. 2-3 that first and second portions of the cursor image (28, 29 fig. 2 or 13, 14 fig. 3) if the cursor image crosses the display boundary; overlaying the first portion of the cursor image onto the first display portion if the cursor crosses the display boundary; and overlaying the second portion (29 fig. 2 or 14 fig. 3) of the cursor image onto the second display portion if the cursor crosses the display boundary.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the using of the first and second portions of the cursor crosses the display boundary as taught by Muhich into the system of Matsuo et al. because this would provide the X and Y screen coordinates respectively and determine whether video formatting is within the range of the cursor (see col. 2, lines 60-66).

Regarding claim 11, Matsuo does not disclose that overlaying the first portion of the cursor image onto the first display portion comprises selectively inserting first portion cursor data associated with the first portion of the cursor image into a first data path of the raster engine according to the comparison of the first vertical counter value with the first cursor start address

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and the first cursor portion height value and the comparison of the horizontal counter value with the cursor column start value and the cursor image width value.

Muhich et al. discloses that overlaying the first portion of the cursor image onto the first display portion comprises selectively inserting first portion cursor data associated with the first portion of the cursor image into a first data path of the raster engine according to the comparison of the first vertical counter value with the first cursor start address (see fig. 2, see X or Y cursors position 28, 29 are cursors start addresses, see col. 2, lines 63-66) and the first cursor portion height value and the comparison of the horizontal counter value with the cursor column start value and the cursor image width value (see fig. 5, see cursor location (X, Y) having height value).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement overlaying the first portion of the cursor image onto the first display portion comprises selectively inserting first portion cursor data associated with the first portion of the cursor image into a first data path of the raster engine according to the comparison of the first vertical counter value with the first cursor start address as taught by Muhich et al. into the system of Matsuo et al. because this would allow a maximum cursor image on the display screen of forty eight pixels wide by sixty four pixels high (see col. 5, lines 65-67), that help for the user for easily to see the image.

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Allowable Subject Matter

3. Claims 4, 9-10, 12-13, 16-17, 19 and 25-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: (See previous Office Action).

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on 571-272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimnhung Nguyen January 27, 2006 AMR A. AWAD
PRIMARY EXAMINER

Am Albun Awan